

NEW TAXA, COMBINATIONS
AND DISTRIBUTION RECORDS
FOR THE OKLAHOMA FLORA

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Progress on a Concise Flora of Oklahoma makes it desirable to publish the following items. Specimens cited are deposited in the Herbarium of Oklahoma State University (OKLA) unless otherwise stated.

Rhynchospora caduca Ell. was collected as *Steve Stephens* 27696 (KANU) from moist rocky soil, wooded bank of small creek, 10 miles north of Broken Bow, McCurtain County, Aug. 17, 1968. It has been known previously from as far west as Benton County, Arkansas, and extreme eastern Texas (Gale, 1946).

Juncus crassifolius Buchenau, Monog. Junc. 326, 1890, should be used for the representatives of the taxon passing as *J. validus* Coville, Bull. Torr. Bot. Club 22: 305, 1895. Coville rejected Buchenau's name, offering his own epithet as a nom. nov., because there existed a name, belonging to another taxon, *J. polycephalus* Michx., var. *crassifolius* Michx., Fl. Bor. Amer. 1: 192, 1803. This procedure may have represented the correct application of The American Code of Botanical Nomenclature, under which Coville was working, but according to the International Rules a name carries priority only in its own rank. Therefore Buchenau's epithet is available and Coville's is superfluous.

We have var. *crassifolius* in the eastern half of Oklahoma. The endemic Texas variety, occurring north and south across central Texas, becomes *Juncus crassifolius* Buch. var. *fascinatus* (M. C. Johnston) Waterfall, comb. nov. based on *J. validus* Cov. var. *fascinatus* M. C. Johnston, Southw. Nat. 9: 313, 1964.

Tipularia discolor (Pursh) Nutt. was collected by *Steve Stephens* 27718 (KANU) pine-deciduous forest hillside, 2

*Dr. Waterfall died in October, 1971.

miles south of Honobia, LeFlore County, Aug. 18, 1968. It was previously known as far west as Garland and Hempstead counties, Arkansas, and Hardin and Jasper counties, Texas (Correll, 1950).

Atriplex patula L., var. **hastata** (L.) Gray. So referred is *Waterfall* 10397, sand, dried bed of Cimarron River, south of Waynoka, Woods County, Oct. 6, 1951. Most of the leaves have fallen from the specimen, but the separate pistillate bracts, some of which are more or less hastate, would seem to positively place it as a representative of this taxon.

Argemone polyanthemos (Fedde) G. B. Ownb., forma **rosea** Waterfall, f. nov., petalis roseis. The petals are pink and the filaments are suffused with pink. In forma *polyanthemos* the petals are white and the filaments are yellow. HOLOTYPE: *Waterfall* 13147 (OKLA), sand, 10 miles south and 3 miles west of Stillwater, Payne County, June 10, 1957.

Hypericum hypericoides (L.) Crantz, var. **multicaule** (Michx.) Waterfall, comb. nov., based on *Ascyrum multicaule* Michx., Fl. Bor. Am. 2: 77. 1803. *Ascyrum hypericoides* L., var. *multicaule* (Michx.) Fern.; *Hypericum stragalum* Adams & Robson, Rhod. 63: 15. 1961. This taxon seems no more than varietally distinct from *H. hypericoides* var. *hypericoides*.

Viola pubescens Ait., var. **eriocarpa** Nutt., Genera of N. Amer. Plants 1: 150, 1818, not var. *eriocarpa* (Schwein.) Russell, based on *V. eriocarpa* Schwein., 1825, should be used as the name of the hairy-fruited taxon of *V. pubescens* Ait. Nuttall (l.c.) stated " β *eriocarpon*. Fruit densely villos . . . In fruit this would be taken for a distinct species . . . in any other respect it does not materially differ from *V. pubescens*; both these varieties are abundant near Philadelphia."

Argythamnia humilis (Engelm. & Gray) Muell. Arg., var. **leiosperma** Waterfall, var. nov. seminibus laevibus vel sublaevibus. Toward the western part of its range in Oklahoma is a population which has smooth seeds, contrasting

with var. *humilis* which has seeds marked with rugose-roughened areas. HOLOTYPE: *Waterfall* 9735 (OKLA) top of Black Mesa, 3 miles north of Kenton, Cimarron Co., Oklahoma, Oct. 7, 1950. Other collections: **Oklahoma**, CIMARRON COUNTY: *Waterfall* 7893 arroyo up north slopes of Black Mesa, 3 miles north and 1 west of Kenton, June 13, 1948; *Waterfall* 8647, along an arroyo running up the north slopes of Black Mesa, 2.5 miles north and 1 west of Kenton, Aug. 23, 1948; *Waterfall* 9231, top of Black Mesa, 3 miles north and 1 west of Kenton, Aug. 9, 1949. **Texas**, BROWN COUNTY: *Stanford* 825, disturbed grassland, 3 miles south of Brownwood, Apr. 15, 1967; *Stanford* 1180, banks of Adams Branch Creek, 2 miles west of Brownwood, May 30, 1967. HAMILTON COUNTY: *Stanford* 1477, prairie, dark limestone soil, 3 miles northwest of Aleman, Sept. 4, 1967; *Stanford* 1482, prairie, 4 miles south of Aleman, Sept. 4, 1967.

Convolvulus incanus Vahl, forma ***roseus*** Waterfall, f. nov., corollis roseis. The entire corolla is pink. This forma appears to be more abundant westward. HOLOTYPE: *Waterfall* 14895 (OKLA), valley north of Black Mesa, north of Kenton, Cimarron County, Oklahoma, June 7, 1958.

Gaillardia lanceolata Michx., var. ***flavovirens*** Mohr, Contr. U. S. Natl. Herb. 6: 812, 1901; *G. lutea* Greene, Pittonia 5: 57, 1902; *G. chrysantha* Small, Fl. SE. U. S., 1293, 1903; *G. serotinum* (Walt.) H. Rock, Rhodora 58: 315, 1956. This phase with yellow disc corollas, of sporadic occurrence, hardly seems separable as a species. We have it from Cherokee, Muskogee and Payne counties. Although the type of var. *flavovirens*, from Baldwin County, Alabama, is said to be rayless our material has ray corollas.

The variety of local occurrence in Hardin County, Texas becomes ***Gaillardia lanceolata*** Michx., var. ***Winkleri*** (Cory) Waterfall, comb. nov. based on *G. lutea* Greene, var. *Winkleri* Cory, Madrono 8: 263-264, 1946.

Helianthus silphioides Nutt. was collected by *Steve Stephens* 27763 (KANU), moist sandy soil on steep wooded

hillside, 1.5 miles northwest of Honobia, Pushmataha County, Aug. 18, 1968. We have specimens from the eastwardly adjacent state of Arkansas.

LITERATURE CITED

- CORRELL, DONOVAN STEWART, Native Orchids of North America North of Mexico. Chronica Botanica Company, Waltham, Mass. 1950.
GALE, SHIRLEY, 1944. Rhynchospora, Section Eurhynchospora, in Canada, the United States and West Indies. *Rhodora* 46: 89-134; 159-199; 207-249; 225-278.

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